

**In the specification**

Please amend the specification by inserting - This application is a continuation of U.S.

*B1* application Serial No. 08/984,979 filed on December 4, 1997. - in the first paragraph as the first sentence.

**In the claims**

Please add claims 49-77 as follows:

49. (New) An integral portion of a biological reaction vessel, comprising:  
a transfer film carrier having a substrate surface; and  
a laser capture microdissection transfer film coupled to said substrate surface of said transfer film carrier.
50. (New) The integral portion of a biological reaction vessel according to claim 49, wherein said laser capture microdissection transfer film includes a material, that upon exposure to sufficient electromagnetic energy, expands and projects itself away from said substrate surface.
51. (New) The integral portion of a biological reaction vessel according to claim 49, further comprising a scattering media in proximity to said laser capture microdissection transfer film.
52. (New) The integral portion of a biological reaction vessel according to claim 49, wherein said laser capture microdissection transfer film includes an absorptive substance.
53. (New) The integral portion of a biological reaction vessel according to claim 49, wherein said laser capture microdissection transfer film is hot vacuum baked onto said substrate surface.
54. (New) The integral portion of a biological reaction vessel according to claim 49, wherein said laser capture microdissection transfer film is bonded to said substrate surface with a refractive index matching transparent glue.

55. (New) The integral portion of a biological reaction vessel according to claim 49, wherein said transfer film carrier includes a negative draft such that a distal diameter defined by said surface of said transfer film carrier is greater than a proximal diameter defined by an inner perimeter of said transfer film carrier.

56. (New) The integral portion of a biological reaction vessel according to claim 55, wherein said transfer film carrier includes a girdle that is contiguous with said negative draft.

57. (New) The integral portion of a biological reaction vessel according to claim 55, wherein said transfer film carrier includes a chamfer that is contiguous with said substrate surface.

58. (New) The integral portion of a biological reaction vessel according to claim 49, wherein said laser capture microdissection transfer film has a thickness that is less than 500 microns.

59. (New) The integral portion of a biological reaction vessel according to claim 49, wherein said laser capture microdissection transfer film has a thickness that is held to within 20%.

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60. (New) The integral portion of a biological reaction vessel according to claim 49, wherein said laser capture microdissection transfer film has a surface opposite said substrate surface having a flatness that is held within five microns.

61. (New) The integral portion of a biological reaction vessel according to claim 49, wherein said laser capture microdissection transfer film includes at least one pedestal that protrudes and defines a laser capture microdissection acquisition zone.

62. (New) The integral portion of a biological reaction vessel according to claim 49, wherein said laser capture microdissection transfer film includes a protruding feature that runs along at least at least three points of a perimeter of said laser capture microdissection transfer film.

63. (New) A microcentrifuge tube cap, comprising an integral portion of a biological reaction vessel including:

a transfer film carrier having a substrate surface, and  
a laser capture microdissection transfer film coupled to said substrate surface of said  
transfer film carrier.

64. (New) A laser capture microdissection assembly comprising:  
a plate having a top surface; and  
at least one laser capture microdissection cap coupled to said top surface of said plate,  
wherein said at least one laser capture microdissection cap includes  
a transfer film carrier having a substrate surface; and  
a laser capture microdissection transfer film coupled to said substrate surface of  
said transfer film carrier.

65. (New) The laser capture microdissection assembly of claim 64, further comprising a  
release layer coated on said plate, said release layer being located between said plate and said  
laser capture microdissection transfer film of each of said at least one laser capture  
microdissection cap.

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66. (New) The laser capture microdissection assembly of claim 65, wherein said release  
layer includes at least one nonadhesive material selected from the group consisting of silicones  
and polytetrafluoroethylenes.

67. (New) The laser capture microdissection assembly of claim 66, wherein said at least one  
nonadhesive material is a silicone containing surfactant agent.

68. (New) The laser capture microdissection assembly of claim 64, wherein a plano-concave  
void is located between said laser capture microdissection transfer film of said at least one laser  
capture microdissection cap and said top surface of said plate.

69. (New) The laser capture microdissection assembly of claim 64, wherein said laser  
capture microdissection transfer film includes a transparent thermoplastic.

70. (New) The laser capture microdissection assembly of claim 64, wherein said laser capture microdissection transfer film includes an absorptive substance.

71. (New) The laser capture microdissection assembly of claim 64, wherein said laser capture microdissection transfer film is hot vacuum baked onto said substrate surface.

72. (New) The laser capture microdissection assembly of claim 64, wherein said transfer film carrier includes a negative draft such that a distal diameter defined by said surface of said transfer film carrier is greater than a proximal diameter defined by an inner perimeter of said transfer film carrier.

73. (New) The laser capture microdissection assembly of claim 64, wherein said laser capture microdissection transfer film has a thickness that is less than 500 microns.

74. (New) The laser capture microdissection assembly of claim 64, wherein said laser capture microdissection transfer film has a thickness that is held to within 20% of a given value.

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75. (New) The laser capture microdissection assembly of claim 64, wherein said laser capture microdissection transfer film has a surface opposite said substrate surface having a flatness that is held within five microns.

76. (New) The laser capture microdissection assembly of claim 64, further comprising at least one diffuser coupled to said at least one transfer film carrier.

77. (New) A set of microcentrifuge tube caps, comprising a laser capture microdissection assembly including:

a plate having a top surface; and

at least one laser capture microdissection cap coupled to said top surface of said plate, wherein said at least one laser capture microdissection cap includes

a transfer film carrier having a substrate surface, and